

## WHAT IS CLAIMED IS:

1. A hybridization reaction method, comprising the steps of:  
dropping a sample solution containing a sample biopolymer on a cover glass; and  
placing a slide glass having a probe biopolymer fixed thereon on the cover glass  
with the fixed probe biopolymer facing down.
2. A hybridization reaction method according to claim 1, further comprising a step of  
placing the cover glass on a silicon sheet prior to the step of dropping the sample solution.
3. A hybridization device, comprising:  
a tray provided with a hollow for placing a slide glass having a biopolymer fixed  
thereon;  
a sheet for fixedly placing the cover glass in the hollow;  
a case for accommodating the tray; and  
a cap for sealing the tray with the case.
4. A hybridization device according to claim 3, wherein the sheet is made of silicone.
5. A hybridization device according to claim 3, wherein the longitudinal length of the  
sheet is generally equal to the length of the hollow.
6. A hybridization device according to claim 3, wherein the sheet is made of silicone,  
and the longitudinal length of the sheet is generally equal to the length of the hollow.
7. A hybridization device according to claim 3, wherein the sheet has a guideline for  
defining the positioning of the cover glass.
8. A hybridization device according to claim 3, wherein the sheet is made of silicone,  
and the sheet has a guideline for defining the positioning of the cover glass.
9. A hybridization device according to claim 3, wherein the longitudinal length of the  
sheet is generally equal to the length of the hollow, and the sheet has a guideline for defining  
the positioning of the cover glass.
10. A hybridization device, comprising:  
a tray having a convex in a hollow for placing a slide glass having a biopolymer  
fixed thereon;  
a case for accommodating the tray; and  
a cap for sealing the tray with the case.
11. A hybridization device according to claim 10, wherein the convex has a cover glass  
positioning groove for determining the position for placing the cover glass.